

This listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims:

1. (Currently Amended) An implantable endoluminal graft, comprising:
 - (a) a microporous metal thin film covering having a pattern of microporous openings passing therethrough;~~comprised of a metallic material having pseudoelastic properties; and~~
 - (b) a metal structural support element having at least one affixation member, a pattern of openings passing through the metal structural support element and underlying the microporous metal thin film covering ~~comprised of a metallic material and further comprised of at least a pair of cylindrical elements and interconnecting members joining adjacent cylindrical elements; and~~
 - (c) wherein the metal structural support element is attached to the microporous metal thin film covering only at the at least one affixation member ~~by at least one point of contact between the microporous metal thin film covering and the structural support element.~~
2. (Currently Amended) The implantable endoluminal graft of claim 1, wherein the affixation member at least one point of contact is positioned near ~~proximate~~ either a proximal end or distal end of the microporous metal thin film covering and a corresponding end of the metal structural support element.
3. (Currently Amended) The implantable endoluminal graft of claim 1, wherein the affixation member at least one point of contact is near ~~proximate~~ a distal end of the microporous metal thin film covering and metal structural support element.

4. (Currently Amended) The implantable endoluminal graft according to [C]claim 1, wherein ~~the structural support element further comprises the~~ at least one affixation member is positioned near ~~proximate~~ a terminal end of the metal structural support element.

5. (Original) The implantable endoluminal graft of claim 4, wherein the microporous metal thin film covering is attached to the at least one affixation member.

6. (Currently Amended) The implantable endoluminal graft of claim 1, wherein the cylindrical elements have ~~adopt~~ a sinusoidal pattern with alternating peaks and valleys.

7. (Cancelled)

8. (Currently Amended) The implantable endoluminal graft according to [C]claim 4, wherein the metal structural support element further comprises a plurality of cylindrical elements and interconnecting elements, the cylindrical elements adopting a sinusoidal pattern with alternating peaks and valleys and the at least one affixation member extends longitudinally from at least one of a peak or a valley at a terminal end of the metal structural support element.

9. (Original) The implantable endoluminal graft of claim 8, wherein the microporous metal thin film covering exhibits a uniform pattern of openings throughout the surface of the microporous metal thin film covering.

10. (Currently Amended) The implantable endoluminal graft of claim 9, wherein the microporous metal thin film covering and the metal structural support element member are fabricated from nitinol.

11. (Original) The implantable endoluminal graft of claim 10, wherein the microporous metal thin film covering maintains a martensite crystalline structure throughout a temperature transition from room temperature to body temperature and behaves martensitically *in vivo*.

12. (Currently Amended) The implantable endoluminal graft of claim 10, ~~further comprising a~~ wherein the metal structural support element member that undergoes a martensite to austenite phase transition, during a temperature transition from room temperature to body temperature and behaves austenitically *in vivo*.

13. (Withdrawn) The implantable endoluminal graft of claim 10, further comprising a microporous metal thin film covering that maintains an austenite crystalline structure throughout a temperature transition from room temperature to body temperature and behaves austenitically *in vivo*.

14. (Withdrawn) The implantable endoluminal graft of claim 10, further comprising a microporous metal thin film covering that undergoes a phase transition, from martensite to austenite crystal structure, during a temperature transition from room temperature to body temperature and behaves austenitically *in vivo*.

15. (Currently Amended) The implantable endoluminal graft of claim 1, wherein the at least one affixation member ~~point of contact further~~ comprises a projection projecting proximally or distally from a cylindrical element at a terminal end of the structural support member.

16. (Cancelled)
17. (Cancelled)
18. (Previously Amended) An implantable endoluminal graft, comprising:
- (a) a microporous metal thin film covering comprised of a shape memory alloy having an austenite phase transition start temperature greater than 37° C; and
 - (b) a structural support element underlying the microporous covering comprised of at least a pair of cylindrical elements and interconnecting members joining adjacent cylindrical elements, the structural support element further comprised of a shape memory alloy having an austenite phase transition start temperature less than 0° C;
 - (c) the structural support element being attached to the microporous metal thin film covering at least one point of attachment between the microporous metal thin film covering and the structural support element.
19. (Original) The implantable endoluminal graft of claim 18, wherein the shape memory alloy is nitinol.
20. (Original) The implantable endoluminal graft of claim 18, wherein the microporous metal thin film covering maintains a martensite crystalline structure throughout the temperature transition from room temperature to body temperature.
21. (Original) The implantable endoluminal graft of claim 18, further comprising a structural support member that undergoes a phase transition, from martensite to austenite crystal structure, during the temperature transition from room temperature to body temperature.

22. (Original) The implantable endoluminal graft of claim 18, wherein the at least one point of contact is located at either near a proximal end or distal end of the microporous metal thin film covering and corresponding end of the structural support element.

23. (Original) The implantable endoluminal graft of claim 18, wherein the at least one point of contact is located at near a distal end of the microporous metal thin film covering and structural support element.

24. (Original) The implantable endoluminal graft of claim 18, wherein the cylindrical elements adopt a sinusoidal pattern with alternating peaks and valleys.

25. (Cancelled)

26. (Original) The implantable endoluminal graft of claim 18, wherein the microporous metal thin film covering exhibits a uniform pattern of openings throughout the surface of the microporous metal thin film covering.

27. (Original) The implantable endoluminal graft of claim 18, wherein the at least one point of contact is on a terminal end of a terminal interconnecting member.

28. (Cancelled)

29. (Previously Presented) An implantable endoluminal graft, comprising:

- (a) a microporous metal thin film covering comprised of nitinol; and
- (b) a structural support element underlying the microporous covering comprised of at least a pair of undulating cylindrical elements having a plurality of peaks and valleys and interconnecting members joining adjacent cylindrical elements at either the peaks or the valleys and having at least one projection extending longitudinally from a terminal cylindrical element, the structural support element being comprised of nitinol,
- (c) the structural support element being joined to the microporous metal thin film covering at the at least one projection.

30. (Original) The implantable endoluminal graft of claim 29, wherein the microporous metal thin film covering maintains a martensite crystalline structure throughout the temperature transition from room temperature to body temperature.

31. (Original) The implantable endoluminal graft of claim 29, wherein the structural support member that undergoes a phase transition, from martensite to austenite crystal structure, during the temperature transition from room temperature to body temperature.

32. (Withdrawn) The implantable endoluminal graft of claim 29, further comprising a microporous metal thin film covering that maintains an austenite crystalline structure throughout a temperature transition from room temperature to body temperature and behaves austenitically *in vivo*.

33. (Withdrawn) The implantable endoluminal graft of claim 29, further comprising a microporous metal thin film covering that undergoes a phase transition, from martensite to austenite crystal structure, during a temperature transition from room temperature to body temperature and behaves austenitically *in vivo*.

34. (Original) The implantable endoluminal graft of claim 29, wherein the microporous metal thin film covering exhibits a regular pattern of openings throughout a surface of the microporous metal thin film covering.

35. (Original) The implantable endoluminal graft of Claim 34, wherein the regular pattern of openings further comprises a plurality of elongate slots arrayed in circumferentially adjacent and longitudinally offset rows, each of the plurality of elongate slots being parallel to a longitudinal axis of the endoluminal graft and capable of opening under the influence of a circumferentially expansive force.